

Division of Solid and Hazardous Waste
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Solid Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

Ingersoll-Rand Company

| | |
|----------------------------|----------------------------|
| Facility Type: | Class II Sanitary Landfill |
| Lot No.: | 7 |
| Block No.: | 3201 |
| Municipality: | Phillipsburg |
| County: | Warren |
| Facility Registration No.: | 2119E1SP01 |

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to riparian land, nor does it allow the permittee to fill or alter or allow to be filled or altered in any way, lands that are deemed to be riparian, wetlands, stream encroachment areas or flood plains, or that are within the Coastal Area Facility Review Act (CAFRA) zone or are subject to the Pinelands Protection Act of 1979, nor shall it allow the discharge of pollutants to waters of this State without prior acquisition of the necessary grants, permits, or approvals from the Department of Environmental Protection.

| | |
|----------------------|-----------------------------------------------------|
| <u>July 26, 1991</u> | <u>Signed by Thomas Sherman, Assistant Director</u> |
| Original Date of | Thomas Sherman |
| Issuance | Assistant Director |
| | Office of Permitting and |
| | Technical Programs |

April 3, 2001
Date of Repermitting

April 3, 2006
Expiration Date

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Scope of Permit

The Ingersoll-Rand Company operates a 4-acre landfill facility at the above lot and block located in Phillipsburg, Warren County. The facility originally received its Solid Waste Facility Permit on July 26, 1991. This is a renewal of the facility's original permit.

The landfill has been classified as a Class II landfill permitted only to accept waste Types 27 and 13C from the Company's on-site activities. Specifically, the landfill was constructed for the disposal of construction and demolition waste and foundry sand waste generated by the Ingersoll-Rand Company. No other waste types or commercial wastes are accepted for disposal at this landfill. The landfill's environmental engineering construction and design consists of a clay liner, leachate collection system, groundwater monitoring wells, passive gas venting system and a clay cap for closure.

This permit does not convey any property rights of any sort, or any exclusive privilege. Failure to comply with all of the conditions specified herein may result in revocation of this permit and/or may result in such other regulatory or legal actions that the Department is authorized by law to institute.

Section I

General Conditions Applicable to All Permits

1. Duty to Comply

- (a) Pursuant to N.J.A.C. 7:26-2.8(i), the permittee shall operate the facility in compliance with the requirements of N.J.A.C. 7:26-2.11.
- (b) Pursuant to N.J.A.C. 7:26-2.8(j), the permittee shall operate the facility in conformance with all of the conditions, restrictions, requirements and any other provisions set forth in this permit.
- (c) Pursuant to N.J.A.C. 7:26-2.8(k), except for minor modifications as set forth at N.J.A.C. 7:26-2.6(d), the permittee shall not modify, revise or otherwise change any condition of this permit without prior written approval of the Department.

2. Duty to Reapply

- (a) Pursuant to N.J.A.C. 7:26-2.7(b)1, if the permittee wishes to continue the operation of this facility after the expiration date of this permit, the permittee shall apply for permit renewal at least 90 days prior to the expiration date of this permit, and the facility must be included in the District Solid Waste Management Plan at the time of such application.
- (b) Pursuant to N.J.A.C. 7:26-2.7(c), the conditions of this permit shall continue in force beyond the expiration date of this permit pursuant to the Administrative Procedure Act, N.J.S.A. 52:14B-11, until the effective date of a new permit if:
 - 1. The permittee has submitted a timely and complete application for a renewal permit pursuant to (a) above; and,
 - 2. The Department, through no fault of the permittee, does not issue a new permit with an effective date on or before the expiration date of this permit, due to time or resource constraints.
- (c) Pursuant to N.J.A.C. 7:26-2.7(d), permits continued under said section remain fully effective and enforceable, and if the permittee is not in compliance with any one of the conditions of the expiring or expired permit the Department may choose to do any or all of the following:

1. Initiate enforcement action based on the permit, which has been continued;
2. Issue a notice of intent to deny the new permit under N.J.A.C. 7:26-2.4. If the permit is denied, the permittee would then be required to cease activities and operations authorized by the continued permit or be subject to an enforcement action for operating without a permit;
3. Issue a new permit under N.J.A.C. 7:26-2.4 with appropriate conditions; or
4. Take such other actions as are authorized by N.J.A.C. 7:26-1 et seq. or the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.

3. Need to Mitigate

- (a) Pursuant to N.J.A.C. 7:26-2.8(p), should the Department determine that the facility is operating in an environmentally unsound manner, the permittee shall:
 1. Within 90 days of notification by the Department, submit a plan to close or environmentally upgrade the facility in conformance with the applicable standards, as determined by the Department and set forth in N.J.A.C. 7:26-1 et seq.;
 2. Within 90 days of receipt of written approval by the Department of the submitted plan, begin to close or construct the environmental upgrading at the facility; and
 3. Within one year of receipt of written approval by the Department of the submitted plan, complete closure or construction of the environmental upgrading at the facility.
- (b) Pursuant to N.J.A.C. 7:26-2.8(q), a one time extension of the compliance schedule established by N.J.A.C. 7:26-2.8(p) shall be granted by the Department provided the permittee demonstrates that it has made good faith effort to meet the schedule.
- (c) Pursuant to N.J.A.C. 7:26-2.8(r), should the environmental upgrading required pursuant to N.J.A.C. 7:26-2.8(p) not be completed or should continued operations be determined by the Department to be environmentally unsound despite the implementation of the plan approved pursuant to N.J.A.C. 7:26-2.8(p), the

facility shall temporarily or permanently cease operations and close or enter into receivership, as necessary to rectify the environmentally unsound conditions.

Permit Actions

- (a) Pursuant to N.J.A.C. 7:26-2.6(a)1, if cause exists, the Department may modify, or revoke and reissue this permit may require the permittee to submit an updated or new application in accordance with N.J.A.C. 7:26-2.6(e), if
- (b) modify or, alternatively, revoke and reissue this permit if cause exists for termination under N.J.A.C. 7:26-2.6(d) revocation and reissuance is appropriate.
- (c) Pursuant to N.J.A.C. 7:26-2.6(d), upon the request of the permittee, an interested party or for good cause, the Department may revoke the permit without issuing a tentative approval, providing public notice thereof or holding a public hearing
- (d) submit any relevant facts in a permit application, or submitted incorrect information in a permit application promptly submit such facts or information.

5. _____

- (a) permittee shall be signed as specified at N.J.A.C. 7:26-2.4(e)1.

All engineering designs and reports, the environmental impact statement as "Addendum" by the Department pursuant to N.J.A.C. 7:26-2.4(f) and (g) submitted pursuant to N.J.A.C. 7:26-2.9 and 2.10, submitted on behalf of the permittee, shall be signed by an authorized representative of that person, as specified at N.J.A.C. 7:26-2.4(e)2.

Any person signing a registration statement, engineering

statement or addendum mentioned in N.J.A.C. 7:26-2.4(e)1 or (e)2, submitted on behalf of the permittee, shall make the certification specified at N.J.A.C. 7:26-2.4(e)3.

6. Transfers

- (a) Pursuant to N.J.A.C. 7:26-2.8(1), the permittee shall not transfer ownership of the permit without receiving prior written approval of the Department, in accordance with N.J.A.C. 7:26-2.7(e).
- (b) Pursuant to N.J.A.C. 7:26-2.7(e)1, a written request for permission to allow any transfer of ownership or operational control of the facility must be received by the Department at least 180 days in advance of the proposed transfer. The request for approval shall include the following:
 - 1. A registration statement completed by the prospective new permittee on forms provided by the Department;
 - 2. A disclosure statement as required by N.J.A.C. 7:26-16.4 completed by the proposed transferee;
 - 3. A demonstration that the final responsibility requirements of N.J.A.C. 7:26-2A.9 will be met by the proposed new permittee; and
 - 4. A written agreement between the permittee and the proposed new permittee containing a specific future date for transfer of ownership or operations.
- (c) Pursuant to N.J.A.C. 7:26-2.7(e)2, a new owner or operator may commence operations at the facility only after the existing permit has been revoked and a permit is issued pursuant to N.J.A.C. 7:26-2.4.
- (d) Pursuant to N.J.A.C. 7:26-2.7(e)3, the permittee of record remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is revoked and a new permit is issued in the name of the new owner or operator.
- (e) Pursuant to N.J.A.C. 7:26-2.7(e)4, compliance with the transfer requirements set forth in that subsection shall not relieve the permittee from the separate responsibility of providing notice of such transfer pursuant to the requirements of any other statutory or regulatory provision.

7. Registration Statement

Pursuant to N.J.A.C. 7:26-2.8(b), prior to May 1 of each year, the permittee shall submit a statement updating the information contained in the permittee's initial registration statement. This update shall be submitted upon submission of an updated statement altering conditions of this permit.

Pursuant to N.J.A.C. 7:26-2.8(c), the permittee shall change in the information set forth in the permittee's current registration statement.

Pursuant to N.J.A.C. 7:26-2.8(d), failure of the permittee to pay all applicable fees, required by N.J.A.C. 7:26-4, on or before July 1 of each calendar year shall be sufficient cause for such other enforcement action as is appropriate.

8. _____

Regulations established at N.J.A.C. 7:26-16.6(b) and N.J.A.C. 7:26-16.6(c) are not applicable since the permittee is the

9. Operating Record and Reporting Requirements

The permittee shall maintain a daily record of wastes specified at N.J.A.C. 7:26-2.13(a).

(b) The daily record shall be maintained, shall be kept, and shall be available for inspection in accordance with

(c) _____
received to the Division of Solid and Hazardous Waste, Bureau of Recycling and Planning and the Solid Waste located, on forms provided by the Department (or duplicates of same), no later than 20 days after the last information specified at N.J.A.C. 7:26-2.13(e).

10. _____

Pursuant to N.J.A.C. 7:26-6.12(b), the permittee shall operate the facility in compliance with any applicable district solid waste approved administrative actions concerning such plan(s).

Should the permittee fail to comply with any applicable district solid waste management plan(s) as well as any amendment to or approved administrative actions concerning such plan(s), the permittee shall be deemed in violation of N.J.S.A. 13:1E-1 et seq. and N.J.A.C. 7:26-1 et seq. and shall be subject to applicable penalties provided thereunder, and any other applicable laws or regulations.

11. Compliance with Other State Regulations and Statutes

Pursuant to N.J.A.C. 7:26-2.8(h), the issuance of this permit shall not exempt the permittee from obtaining all other permits or approvals required by law or regulations.

End of Section I

Section II

General Operating Requirements

1. General Operating Requirements for All Solid Waste Facilities

Pursuant to N.J.A.C. 7:26-2.11, the facility must be operated in compliance with the following general operating requirements:

- (a) Within each 24-hour period, the operator shall clean each area where waste has been deposited or stored, for sanitary landfills all areas where waste has been deposited shall be covered with the appropriate cover material.
- (b) Facility property surrounding the actual disposal area shall be maintained free of litter, debris, and accumulations of unprocessed waste, process residues and effluents. Methods of effectively controlling wind-blown papers and other lightweight materials such as fencing shall be implemented at the facility.
- (c) Methods of effectively controlling dust shall be implemented at the facility in order to prevent offsite migration.
- (d) The operation of the facility shall not result in the emission of air contaminants in violation of N.J.A.C. 7:27-5.2(a).
- (e) The operator shall maintain all facility systems and related appurtenances in a manner that facilitates proper operation and minimizes system downtime. When requested, the operator of the facility shall furnish proof that provisions have been made for the repair and replacement of equipment that becomes inoperative.
- (f) An adequate water supply and adequate fire-fighting equipment shall be maintained at the facility or be readily available to extinguish any and all types of fires. Fire-fighting procedures as delineated in the approved O and M manual, including the telephone numbers of local fire, police, ambulance and hospital facilities, shall be posted in and around the facility at all times.
- (g) The operator shall effectively control insects, other arthropods and rodents at the facility by means of a program in compliance with the requirements of the New

Jersey Pesticide Control Code, N.J.A.C. 7:30, and implemented by an applicator of pesticides, certified in accordance with the New Jersey Pesticide Control Code, N.J.A.C. 7:30.

- (h) The operator shall at all times comply with the conditions of this SWF permit, as well as all other permits or certificates required and issued by the Department or any other governmental agency. The operator shall not receive, store, handle, process or dispose of waste types not specifically identified in this SWF permit or other permit or certificate issued by the Department.
- (i) The operator shall maintain a record of the quantity of each authorized waste type accepted for disposal, in accordance with N.J.A.C. 7:26-2.13.
- (j) Departmental inspectors shall have the right to enter and inspect any building or other portion of the facility, at any time. This right to inspect includes, but is not limited to:
 - 1. Sampling any materials on site;
 - 2. Photographing any portion of the facility;
 - 3. Investigating an actual or suspected source of pollution of the environment;
 - 4. Ascertaining compliance or non-compliance with any statutes, rules, or regulations of the Department, including conditions of this SWF permit or other permit or certificate issued by the Department; or
 - 5. Reviewing and copying all applicable records, which shall be furnished upon request and made available at all reasonable times for inspection.
- (k) The quantity of waste received by the facility operator shall not exceed the system's designed handling, storage, processing or disposal capacity as identified in this SWF permit or other permit certificate. The designed processing and disposal capacity approved within the solid waste facility permit, or any other permit certificate or approval conditions as a ton per day operational maximum shall be inclusive of all solid waste received at the facility as well as all tonnages of source separated recyclables received.
- (l) The facility shall be operated in a manner that employs the use of the equipment and those techniques for the

receipt, storage, handling, processing or disposal of specifically authorized by the SWF permit.

The approved final O and M manual shall be maintained at changes to the approved, final O and M manual shall be submitted to the Department for review. These proposed the Department approves the changes.

General Operating Requirements for Class II Sanitary

All Class II accordance with the requirements set forth in N.J.A.C. 7:26-2.8, and the following additional operational, maintenance, N.J.A.C. 7:26-2A.8.

The sanitary landfill shall be operated in accordance with

(a) _____

1. practical area, as is consistent with the proper operation of trucks and equipment, in order that operating day is minimized. The width of the working face shall be no greater than 150 feet.

All waste shall be thoroughly compacted throughout practical volume.
3. Solid waste shall be compacted in shallow layers. The layers should be less than two feet in of four passes of the compaction equipment. Sanitary landfill equipment shall be prohibited until a minimum of five feet of refuse has been mounded over and around the pipe.

The lift height of the daily cell, as measured shall not exceed 12 feet.
5. The slope of the working face shall be maintained so as to maximize compaction of the solid waste

The slope shall be no steeper than three horizontal to one vertical (3:1)

(b) Daily, Intermediate and Final Cover

1. The daily covering of solid waste shall be a progressive operation so that no greater than 15,000 square feet of solid waste is exposed at any time throughout the operating day for each 150 feet of working face.
2. All exposed surfaces of solid waste shall be covered at the close of each operating day with a minimum of six inches of daily cover, unless the solid waste meets the following:
 - i. The uncovered solid waste will not create an environmental or public health nuisance as determined by the Department;
 - ii. The uncovered solid waste will not create a safety hazard as determined by the Department;
 - iii. The solid waste is a clean fill; and,
 - iv. The solid waste is an inert material.
3. Intermediate cover, a minimum of 12 inches of cover material, shall be applied to all surfaces to be exposed for any period exceeding 24 hours.
4. The grade and thickness of the final cover material on all surfaces shall be maintained until stabilized. All cracks, erosion swales, rills and uneven areas shall be maintained to prevent extrusion of solid waste and to minimize infiltration and ponded water.
5. All areas with intermediate cover shall be graded so as to facilitate drainage of run-off to the surface drainage system and minimize infiltration and ponded water.
6. Heavy clays and very fine grain materials, such as fly ash, shall not be used as daily and intermediate cover. The daily and intermediate cover material should be of a quality that is manageable under all weather conditions. A sufficient quantity of cover material shall be at the site to adequately meet the requirements of (b)1 through 4 above. For landfills without on-site supplies of cover material, a standby supply for cover material equal to 25 percent of the

volume of waste received and compacted at the landfill in 10 normal disposal days shall be stored

7. Final cover constructed in accordance with N.J.A.C. 7:26-2A.7(the final approved elevation has been reached and to all surfaces when the landfill operation is

8. equipment for digging, spreading, compacting or covering waste or applying cover material to above, to ensure a smooth flow of traffic at the working face and to achieve the maximum compaction

9. hand-portable fire extinguishers of a multipurpose dry chemical type, an automatic fire suppression other safety equipment required by the Occupational Health and Safety Administration standards.

In case of breakdown of the equipment required by or obtain replacement equipment within 24 hours after breakdown.

Access

disposal shall be permitted only during the operating hours set by the Division of Solid and Hazardous Waste

P.M. in areas within 1000 feet of a residential zone.

(d) Housekeeping

1. Dust control shall be effected by the spraying of water or the spreading of calcium chloride or an Spraying of waste oil is prohibited.

2. The sanitary landfill shall not cause any air contaminant to be emitted in violation of N.J.A.C. controlled by the use of daily cover. In the event that this is not satisfactory, a suitable shall be covered immediately after unloading with

a minimum of six inches of cover material or approved alternative material.

3. The sanitary landfill shall be operated in a manner, which minimizes the propagation and harborage of insects, rodents, and birds.
4. The sanitary landfill shall be operated in a manner that will protect all monitoring devices and environmental systems from damage. Any damage shall be immediately reported to the Department at 1(877)WARN-DEP.
5. Any monitoring device or environmental control system which is damaged so as to impair the proper operation of the monitoring device or environmental control system shall be reconstructed in accordance with the following:
 - i. The operator shall repair the monitoring device or environmental system in accordance with the plans and schedule approved by the Department; and,
 - ii. The Department may require immediate remedial action for repair of the damaged monitoring device or environmental control system should such damage endanger human health or the environment.
6. The sanitary landfill shall be operated in a manner which will facilitate the filling of each section to final grade and which will minimize the operational phase of each section.
7. An all weather road shall be provided to the working face.

(e) Facility Staffing

1. An adequate number of qualified personnel shall be at the sanitary landfill to maintain the smooth flow of traffic at the sanitary landfill and to operate the sanitary landfill in a manner that is in compliance with the requirements of the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., N.J.A.C. 7:26, and the conditions of this SWF permit.
2. A supervisor shall be at the sanitary landfill during all operating hours to ensure proper operation of the sanitary landfill, to evaluate the

monitoring data and inspection reports, to and to direct and implement all operational decisions to ensure the facility's compliance with N.J.S.A. 13:1E-1 et seq., N.J.A.C. 7:26, and the

(f) _____

1. All sanitary landfill personnel who are involved service or monitor any facility equipment, machinery or system, shall complete a program of minimum, the following:

The training program shall be directed by a technology being utilized at the facility and the conditions of this SWF permit.

- ii. operation and maintenance of the equipment, machinery and systems which facility the course of their daily job duties. The training shall instruct facility personnel in that ensures the facility's compliance with the requirements of the Solid Waste et _____, N.J.A.C. 7:26, and the conditions of this SWF

- iii. The training program shall ensure that the facility personnel are able to effectively emergency situation that may arise.

The training program shall provide emergency equipment and the use of communication or alarm systems.

- v. instruction in the procedures for emergency response for sanitary landfill fires or

or leaks, detention basin breaches or other emergencies and shall include procedures to shut down operations.

2. The sanitary landfill facility personnel shall complete the initial training program required by (f)1 above within six months after the date of their employment.
3. The sanitary landfill facility personnel shall take part in an annual update of the initial training program.
4. Training records that document the type and amount of training received by current facility personnel shall be kept until closure of the sanitary landfill.

(g) Emergency Actions

1. The following actions shall be implemented in the case of an emergency:

- i. The supervisor or emergency coordinator shall immediately identify the character, exact source, amount and extent of any discharged materials and notify appropriate State or local agencies with designated response roles if their help is needed.
- ii. Concurrently, the supervisor or emergency coordinator shall assess possible hazards to public health or the environment that may result from the discharge, fire or explosion. This assessment shall consider both direct and indirect effects.
- iii. If the supervisor or emergency coordinator determines that the facility has had an uncontrolled discharge, a discharge above standard levels permitted by the Department, or a fire or explosion, he or she shall:
 - (1) Immediately notify appropriate local authorities if the assessment indicates that evacuation of local areas may be advisable.
 - (2) Immediately notify the Department at 1-877-WARN-DEP.
 - (3) When notifying the Department, report the type of substance and the estimated quantity discharged, if known, the location of the discharge, actions the person reporting the discharge is currently taking or proposing to

any other information concerning the incident which the Department may request at the time

- iv. The supervisor shall take all reasonable measures to ensure that fires, explosion and discharges do not occur at the facility. These measures shall include, where applicable, the cessation of operations and the removal of materials from the facility. Immediately after an emergency, the supervisor or the person in charge of the facility shall ensure that the facility is safe for storing or disposing of waste, contaminated soil or water or any other material contaminated as a result of the emergency.
- vi. The supervisor or emergency coordinator shall ensure that no waste is processed until cleanup equipment listed in the contingency plan is again fit for its intended use.
- vii. The supervisor or emergency coordinator shall notify the Department and appropriate local authorities when the facility has returned to normal.
- viii. The supervisor or emergency coordinator shall submit a written report on the incident to the Department. The report shall include:
 - (1) A description of the incident.
 - (2) The date, time and description of the incident.
 - (3) The extent of injuries, if applicable, with names of injured persons.
 - (4) A description of the immediate actions taken to protect the environment, if applicable.
 - (5) An assessment of the scope and magnitude of the incident.A description of the immediate actions taken to protect the area and prevent a recurrence of a similar incident.

incident.

- (7) An implementation schedule for undertaking longer term measures to effect cleanup and avoid recurrence of the incident, if applicable.

(h) Fire Fighting

1. In case of a fire on an active sanitary landfill, the responsibility for fire control shall lie with the SWF permit holder.
2. The owner or operator of any landfill wherein smoldering, smoking or burning is occurring shall immediately notify the local police and fire department having jurisdiction and the Department hot-line 1-877-WARN DEP.
3. The owner or operator of any active landfill shall be responsible for initiating and continuing fire-fighting actions until all smoldering, smoking and burning ceases.
4. The owner or operator of any landfill shall seek and obtain fire-fighting assistance if smoldering, smoking or burning persists for longer than 24 hours.
5. The owner or operator of any landfill shall not conduct disposal activities within the burning area. Precautions shall be taken to prevent disposal activities from interfering with fire-fighting activities.
6. Any disruption of the finished grade or covered surface shall be repaired and recovered upon completion of fire-fighting activities.

3. General Maintenance and Inspection Requirements for Class II Sanitary Landfills

- (a) While the sanitary landfill is in operation all environmental control systems shall be maintained in a proper functioning manner and shall be inspected to ensure compliance with the operational and construction/requirements and the design and performance standards.
- (b) The inspections, required by (a) above, shall be performed, unless otherwise stated, on a weekly basis and after storm events to detect evidence or

deterioration, malfunction or improper operation.

- (c) The owner and/or operator shall record the results of the inspections in a log book or by means of an electronic records storage system approved by the Department which shall be maintained at the sanitary landfill office and be accessible, at all times, for inspection by the Department. These records shall include the date and time of the inspection, the name of the inspector, a notation of observations and recommendations and the date and nature of any repairs or other remedial action.
- (d) If deterioration which would result in failure, malfunction or improper operation is evident during inspection, the operator shall make repairs in accordance with condition 2(d)5 of Section II "General Operating Requirements for Class II Sanitary Landfills" and as listed in the approved final O and M manual.
- (e) The sanitary landfill shall be maintained and inspected by the owner and/or operator in accordance with the following additional minimum requirements:
 - 1. The all weather road shall be maintained as necessary to provide access to the working face.
 - 2. The vertical and horizontal control monuments shall be maintained and resurveyed by a licensed New Jersey Land Surveyor and certified for accuracy biennially. The survey shall be, at a minimum, second order accuracy in accordance with the "Classification Standards of Accuracy, and General Specifications of Geodetic Control Survey" published by the U.S. Department of Commerce 1980. The control monuments shall be tied into the national or state geodetic survey network.
 - 3. All emergency equipment shall be maintained in a proper functioning manner. The equipment shall be tested on an annual basis.
 - 4. The leachate collection pipes shall be maintained to ensure a free flow of leachate. The leachate collection pipes shall be inspected and if blockage and clogging of the system is evident the collection pipes shall be cleared by water jet flushing or an equivalent method. The mains shall be tested annually to ensure a free flow of leachate.
 - 5. The structural integrity of the manholes or clean-

out risers shall be maintained to ensure a free flow of leachate.

6. The structural integrity of the sumps shall be maintained to ensure water tightness of the sump.
7. The structural integrity of the leachate pump station and the electrical systems of the leachate pump station shall be maintained to ensure a free flow of leachate.
8. The leachate pumping system shall be maintained as necessary. They shall be completely overhauled, at a minimum, on a biennial basis and shall be inspected on a daily basis to ensure a free flow of leachate.
9. The leachate treatment and disposal system shall be inspected on a daily basis and maintained in a manner that will prevent anaerobic and malodorous conditions from developing.
10. The structural integrity and erosion protection shall be maintained on all areas of the surface impoundment to ensure stability of the dike and emergency spillways and containment of the leachate and run-off. The surface impoundment shall be inspected on a daily basis to ensure that the minimum depth of freeboard is maintained.
11. The structural integrity of all monitoring devices shall be maintained to ensure their workability and reliability.
12. The structural integrity and erosion protection of the surface run-on/run-off structures shall be maintained on all areas of the capping system to ensure the stability of the slope and prevent excess erosion. The top grades shall be maintained at their proper slopes to minimize ponding.

4. General Monitoring Requirements for Class II Sanitary Landfills

Monitoring shall be performed in accordance with the following parameters and schedules:

- (a) Sampling and analysis of water from the groundwater monitoring wells shall be performed in accordance with the NJPDES regulations, N.J.A.C. 7:14A.

- (b) surface water monitoring locations shall be performed
- (c) treatment and disposal system shall be performed in accordance with the appropriate section of the NJPDES
- (d) of leachate in the leachate collection system shall be recorded on a daily basis.
The daily leachate monitoring results shall be compiled
- (f) meteorologic monitoring system shall be compiled and submitted on a
- (g) of all areas of the sanitary landfill. The topographic survey shall be made between January 1 and March 31 of in accordance with N.J.A.C. 7:26-2A.8(i).

Section IIISpecific Conditions Applicable to the Facility1. Permitted Waste Types

The permittee is authorized to accept the following waste types:

| <u>ID</u> | <u>DESCRIPTION</u> |
|-----------|----------------------------------------|
| 27 | Dry industrial waste (foundry sand) |
| 13C | Construction and demolition waste |

The permittee is not authorized to accept any other type or description of solid waste as defined at N.J.A.C. 7:26-2.13(g) and (h), regulated medical waste as defined at N.J.A.C. 7:26-3A.6(a), or hazardous waste as defined at N.J.A.C. 7:26-G(5).

2. Approved Designs, Plans and Reports

(a) The permittee shall operate the facility, and construct or install associated appurtenances thereto, in accordance with the provisions of N.J.A.C. 7:26-1 et seq., the conditions of this permit, and the following permit application documents which are incorporated herein by reference:

1. Solid Waste Facility Permit Application Form signed by Mr. Jerry Wenker, Director, Facilities Capital and Environmental Affairs dated April 4, 1996;
2. Updated Operations and Maintenance Manual dated February 23, 1996 original manual prepared by Tellus Consultants dated February 1990;
3. Updated Environmental and Health Impact Statement for Class II Sanitary Landfill, Ingersoll-Rand Company, Phillipsburg, New Jersey dated February 23, 1996 originally prepared by Tellus Consultants dated June 24, 1988;
4. Engineering Report with amendments dated March 9, 1990 and September 14, 1990;
5. The set of plans approved by the Department

Tellus Consultants,
consisting of the following: figures 1, 2

7, 1990), 6, 8 (revised October 28, 1988), 9,
and 10. The Soil Erosion and Sediment Control

18, 19, 20 and 21.

- (b) In case of conflict, the provisions N.J.A.C. 7:26-1 et seq. shall have precedence over the conditions of this precedence over the SWF permit application documents listed above, and the most recent revisions and prevail over prior submittals and designs.
- (c) One complete set of the permit application documents listed in Condition 2(a) above, this Solid Waste Facility required pursuant to this permit shall be kept on-site and shall be available for inspection by authorized credentials.

3. _____

(a) Landfill Service Capacity

(4) acres. Final elevation, including the final cover, shall not exceed an elevation of 362 feet above mean sea msl) for the entire landfill. The sideslopes constructed as specified on the referenced engineering plans.

Hours of Operation

The permittee shall accept waste at the facility in

Mondays through Fridays: 7:30 a.m. to 4:00 p.m.

Construction Requirements

(a) Baseliner System Profile

The landfill's approved liner profile shall consist of a of 1×10^{-7} cm/sec with a leachate collection system.

(b) Landfill's Final Cover System

1. The final cover for the landfill shall consist of the following capping system from top to bottom:
 - (a) 6 inches of topsoil for vegetation;
 - (b) a 6 inch drainage layer with a minimum hydraulic conductivity of 1×10^{-3} cm/sec; and,
 - (c) 2 foot layer of clay compacted to a permeability of 1×10^{-7} cm/sec.

(c) Construction Quality Assurance/Quality Control (QA/QC)

For construction of new cells that includes the liner system, leachate collection system and capping system the following quality control and assurance measures shall be implemented:

1. A quality assurance inspector, independent of the quality control inspector, approved by the Department and reporting directly to the Department, shall be at the site at all times during the initial construction phase of the containment and leachate collection systems to observe and perform all required systems audits of the quality control inspections, as set forth at 2, 3 and 4 below, to insure proper implementation of the design and permit requirements. For the purposes of this section, quality control assurance means the periodic testing and observations performed by the owner and/or operator of a landfill as a check on the construction contractor's quality control activities.
2. A meeting shall be held between the quality assurance inspectors and the Department to establish reporting procedures and frequency, in accordance with the construction scheduling.
3. Quality control inspectors shall be at the site during all phases of construction to ensure and verify that the approved sanitary landfill design and SWF permit landfill construction requirements are properly implemented.
4. The quality control inspectors shall, at a minimum, be at the site at all times during the construction of the containment and leachate collection systems. For the purposes of this section, quality control means those activities and responsibilities assigned to the construction

contractor, manufacturer, installer or supplier to measure and regulate the characteristics or properties of an item in order to ensure that the applicable landfill construction requirements at N.J.A.C. 7:26-2A.7 and the SWF permit conditions are met. This includes those actions taken before, during, or after construction to ensure that the materials used and the completed workmanship are in conformance with the construction requirements at N.J.A.C. 7:26-2A.7 and the SWF permit.

5. The quality control measures and tests required by N.J.A.C. 7:26-2A.7 and described in the QA and QC plan submitted in accordance with N.J.A.C. 7:26-2A.5(a)7 shall be employed to ensure that the construction requirements are properly implemented and that the design and performance standards are achieved.
6. The scheduled frequency of inspections by the independent quality assurance inspectors may be reduced or discontinued if approved by the Department. The reductions or discontinuance shall be based on the results of the initial construction tests and the precision and consistency of the quality control test results.
7. At such time as the independent quality assurance inspector is discontinued, as approved by the Department, the activities performed by the quality assurance inspector shall be carried out by the permittee's quality control inspectors in accordance with the approved Quality Assurance and Quality Control Plan.
8. The Department may reinstate the independent quality assurance inspection at the site if the results of the construction tests and the precision and consistency of the quality control testing warrant such reinstatement.
9. Best available engineering construction practices shall be employed for all phases of the facility construction.

(d) As-Built Certification

For construction items requiring quality assurance/quality control inspections the following conditions shall apply:

1. A New Jersey licensed professional civil or geotechnical engineer shall certify, in writing, to the Department that he or she has supervised the inspection of the construction of each major phase of the sanitary landfill's construction. He or she shall further certify that each phase has been prepared and constructed in accordance with the engineering design approved by the Department, prior to operations. The certification shall include a final documentation report which shall summarize the daily quality control of construction activities as required by N.J.A.C. 7:26-2A.7(a)14 and shall include as-built drawings.
2. A New Jersey licensed professional civil or geotechnical engineer shall certify that the materials utilized in the containment system and leachate collection system are in conformance with and meet the specifications of the approved engineering design.
3. There shall be no deviation made from the approved engineering design specification without the prior written approval of the design engineer and, at a minimum, prior verbal approval by the Department.
4. All certifications shall bear the raised seal and signature of the licensed professional engineer, and the date of certification.
5. The certification shall include the following: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals under my supervision, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I understand that, in addition to criminal penalties, I may be liable for a civil administrative penalty pursuant to N.J.A.C. 7:26-5 and that submitting false information may be

grounds for denial, revocation or termination of any solid waste facility permit for which I may be seeking approval or now hold."

5. Special Conditions

- (a) The use of foundry sand as daily and intermediate cover at this facility is acceptable provided that foundry sand is classified as an ID 27 waste.

(b) Submission Schedule for Monitoring

The following information shall be submitted to the Bureau of Landfill & Recycling Management, Division of Solid and Hazardous Waste, P.O. Box 414, Trenton NJ 08625-0414:

| <u>Document</u> | <u>Frequency</u> | <u>Due Date</u> |
|-----------------------------|------------------|------------------------------------|
| Leachate monitoring results | quarterly | March, June September, December |
| Daily precipitation summary | quarterly | March, June September, December |
| Topographic survey | annually | May 1 st |

End of Section III